

**Mitchell, Brian**

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**From:** Mitchell, Brian  
**Sent:** Monday, July 22, 2019 12:21 PM  
**To:** Graesch, Matthew  
**Subject:** RE: FW: site assessment

Just send me a map or google earth map with two locations and potential depths?

Brian Mitchell  
RCRA Corrective Action Officer  
EPA Region 7  
LCRD/ROAG  
2.3 – P44  
11201 Renner Blvd  
Lenexa, Kansas 66219  
913-551-7633 work  
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**From:** Graesch, Matthew <matthew.graesch@dnr.iowa.gov>  
**Sent:** Monday, July 22, 2019 10:50 AM  
**To:** Mitchell, Brian <Mitchell.Brian@epa.gov>  
**Subject:** Re: FW: site assessment

Brian,

I couldn't find discussion in past reports of the possibility that contamination of the city finished water is somehow short-circuiting the drinking water system and not being picked up in the city drinking water wells proper. The water plant for the city is only 400' directly west of the site, and I cannot see where any shallow investigation has been done in that direction.

The Pleistocene outwash gravels in which the city wells are screened form a complex, multi-level, braided system. Hitting it is somewhat luck of the draw. I mapped the bedrock surface in the area using the latest DEM to re-calibrate the surface elevations of all wells and added many new wells as well as the roto-sonic wells from last year. Even with all the new information, the horizontal resolution is not sufficient to guarantee a "hit" on the buried gravels. They are not a "sheet" in planform as many aquifers are, but rather a lattice. Also, I suspect that any contamination getting to the aquifer from the Electrolux site is not migrating laterally to any great extent, but rather is migrating nearly vertically until it contacts a gravel layer with orders of magnitude greater horizontal permeability. The till units above the aquifer are (as was shown in previous drilling) highly impermeable in a horizontal manner. It is well understood though that some of the tills, especially the pre-

Illinoisan age tills, are often significantly fractured in a vertical sense and transmit water (and contaminants) vertically quite well. It has been shown at the site that a vertical gradient does exist all the way to bedrock.

If I was picking the drilling locations, I would put a hole immediately west of the site and see what shows up. Is there anything shallow between the site at the water plant? I would also put my deep hole on-site rather than some distance away in order to look for vertical movement of TCE and degradation products.

This is just my \$0.02

Thanks. Let me know if there is any chance for DNR to come out when the drilling is occurring so that we might be able to view the core.



**Matthew Graesch** | Solid Waste/Contaminated Sites  
Iowa Department of Natural Resources  
P 515-725-8331 | F 515-725-8201 | 502 E. 9th St., Des Moines, IA 50319  
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On Mon, Jul 15, 2019 at 4:46 PM Mitchell, Brian <[Mitchell.Brian@epa.gov](mailto:Mitchell.Brian@epa.gov)> wrote:

One more deep well in line with facility and downtown muni wells. Also planned some geoprobing of other potential sources and take soil and shallow groundwater samples.

Brian Mitchell

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**From:** Graesch, Matthew <[matthew.graesch@dnr.iowa.gov](mailto:matthew.graesch@dnr.iowa.gov)>

**Sent:** Monday, July 15, 2019 2:42 PM

**To:** Mitchell, Brian <[Mitchell.Brian@epa.gov](mailto:Mitchell.Brian@epa.gov)>

**Subject:** Re: FW: site assessment

I will send some thoughts this week given what I've learned. Was the plan to drill additional wells downgradient? Or to do more drilling on-site? It is too bad that the roto-sonic wells drilled last year did not find the buried channel aquifer that the city uses. I was hopeful that they would. Also, I apologize if I am overstepping any bounds by getting involved. I don't want to intrude. I am working on taking over some of the things that were done by Greg Fuhrmann before his retirement, but all of my previous experience is with state-lead projects, so I am a little unsure of how involved to be with one like this.

Thanks.

On Mon, Jul 15, 2019 at 1:16 PM Mitchell, Brian <[Mitchell.Brian@epa.gov](mailto:Mitchell.Brian@epa.gov)> wrote:

Tell me now what you would like too see done. Location, depth, completion interval, etc.

Brian Mitchell

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**From:** Graesch, Matthew <[matthew.graesch@dnr.iowa.gov](mailto:matthew.graesch@dnr.iowa.gov)>

**Sent:** Monday, July 15, 2019 1:15 PM

**To:** Mitchell, Brian <[Mitchell.Brian@epa.gov](mailto:Mitchell.Brian@epa.gov)>

**Subject:** Re: FW: site assessment

Brian,

Thanks for the info. The Iowa DNR would appreciate the chance to have input when/if any new wells are drilled downgradient at the site. Please keep us informed if Superfund does engage in drilling new wells. As I mentioned, I spent some time mapping the bedrock surface at the site and will continue to do a little work here and there as time allows.

Thanks



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On Mon, Jul 15, 2019 at 12:40 PM Mitchell, Brian <[Mitchell.Brian@epa.gov](mailto:Mitchell.Brian@epa.gov)> wrote:

Brian Mitchell

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**From:** Mitchell, Brian  
**Sent:** Tuesday, June 11, 2019 3:38 PM  
**To:** Buchholz, Ken <[Buchholz.Kenneth@epa.gov](mailto:Buchholz.Kenneth@epa.gov)>  
**Subject:** site assessment

Since Todd and Manny are gone, can I manage the site assessment task order and get work going at Jefferson, IA?

Brian Mitchell

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**From:** Schmaedick, Manuel  
**Sent:** Friday, May 10, 2019 8:21 AM  
**To:** Davis, Todd H. <[Davis.ToddH@epa.gov](mailto:Davis.ToddH@epa.gov)>; Buchholz, Ken <[Buchholz.Kenneth@epa.gov](mailto:Buchholz.Kenneth@epa.gov)>; Walker, Stanley <[Walker.Stanley@epa.gov](mailto:Walker.Stanley@epa.gov)>

**Cc:** Chiccine, Catherine <[chiccine.catherine@epa.gov](mailto:chiccine.catherine@epa.gov)>; Nazar, Kristen <[Nazar.Kristen@epa.gov](mailto:Nazar.Kristen@epa.gov)>; Hoefer, David <[Hoefer.David@epa.gov](mailto:Hoefer.David@epa.gov)>; Pyakuryal, Kumud <[Pyakuryal.Kumud@epa.gov](mailto:Pyakuryal.Kumud@epa.gov)>; Peterson, Mary <[Peterson.Mary@epa.gov](mailto:Peterson.Mary@epa.gov)>; Hayes, Scott <[Hayes.Scott@epa.gov](mailto:Hayes.Scott@epa.gov)>; Bernard-Drakey, Jamie <[Bernard-Drakey.Jamie@epa.gov](mailto:Bernard-Drakey.Jamie@epa.gov)>; Walker, Stanley <[Walker.Stanley@epa.gov](mailto:Walker.Stanley@epa.gov)>; Mitchell, Brian <[Mitchell.Brian@epa.gov](mailto:Mitchell.Brian@epa.gov)>

**Subject:** Iowa Department of Natural Resources Conference Call - IA SAM Activities

Todd, Stan et al. –

For the remainder of the FY I will be out of the country for post-graduate work in Spain.

I believe Ken and the management team are working on additional personnel to assist with SA and Brownfields activities. For the little bit of the SA world I was exposed to, I definitely learned a lot about what goes on in your shop!!

I will be departing from KC shortly in order to assist with some family matters prior to heading overseas.

I look forward to catching up when I return.

MS

-----Original Appointment-----

**From:** Davis, Todd H.

**Sent:** Thursday, May 09, 2019 8:10 AM

**To:** Schmaedick, Manuel; Pyakuryal, Kumud; Davidson, Amie [DNR]; R7-Conflin-913-551-8644-P10XXXX/Phone/R7-RO

**Cc:** Chiccine, Catherine; Nazar, Kristen; Hoefer, David

**Subject:** Iowa Department of Natural Resources Conference Call

**When:** Thursday, May 09, 2019 3:00 PM-3:30 PM (UTC-06:00) Central Time (US & Canada).

**Where:** R7-RO2.A-C09-8/R7-RO

Conference Line 913-551-8644

Passcode 100200

Todd,

Are you available sometime today to discuss a couple of things:

1. Drycleaner inventory
2. PFAS inventory
3. A site situation regarding a unvegetated vacant lot with lead contaminated soil that is in the middle of a residential area. We are wanting to get a good understanding of EPA's authority so we can possible use that as leverage to get the owner to do what we want.

The most urgent item is #3.

We are available after 1:00 today.



Thanks,

Amie



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